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	Application No.	Applicant(s)	
	09/544,479	HANAOKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
·	Roberta A Stevens	2665	
The MAILING DATE of this communication application application application application application and the second state of the communication application and the communication application applicat	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is so	this application. If not included nication will be mailed in due course. <b>Ti</b>	HIS itiative
1. $\boxtimes$ This communication is responsive to <u>12-02-2004</u> .			
2. 🔀 The allowed claim(s) is/are <u>7, 8, 11 and 13-16, enumber</u>	ed 1-7.		
3. $igotimes$ The drawings filed on <u>07 April 2000</u> are accepted by the	Examiner.		
4.  Acknowledgment is made of a claim for foreign priority a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents ha 2.  Certified copies of the priority documents ha 3.  Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 6.  CORRECTED DRAWINGS (as "replacement sheets") m (a)  including changes required by the Notice of Draftsper 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examine Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7.  DEPOSIT OF and/or INFORMATION about the department of the priority documents in the priority of the priorit	ve been received.  ve been received in Application documents have been received and application to file and application.  E" of this communication to file amendment of this application.  emitted. Note the attached EXA ives reason(s) why the oath or just be submitted.  erson's Patent Drawing Review er's Amendment / Comment or at 1.84(c)) should be written on the the header according to 37 CF posit of BIOLOGICAL MATE	in No in this national stage application from the requirement of the requirement o	s
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. National Interview Su Paper No./	ormal Patent Application (PTO-152) mmary (PTO-413), adil Date <u>3-4-2005</u> .	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date</li> </ol>	, –	Amendment/Comment	
4.   Examiner's Comment Regarding Requirement for Deposi	<u> </u>	Statement of Reasons for Allowance	
of Biological Material	9. <b>⊡</b> Other		

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## **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Carl Brundidge on Friday, March 4, 2005.
- 3. The application has been amended as follows:

Claim 7,

Line 14, "processing units, and", has been replaced with -processing means, and-

## Allowable Subject Matter

- 4. Claims 7, 8, 11 and 13-16, renumbered 1-7, are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art does not teach or fairly suggest a control method of assigning a channel to a plurality of modem processing means of a RF base station to demodulate a bas band received signal and modulate a transmit data signal, the modem processing means each operating in a time-multiplexing manner, comprising: converting a plurality of carrier frequency band signals received by a plurality of

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antennas provided in the RF base station to a plurality of base band received signals in a RF unit; storing a plurality of the base band received signals in a buffer memory; and assigning a respective channel to a respective modern processing means for demodulating the bas band signals and for modulating the transmit data signals, including: enabling a controller to check the loads of a plurality of modem processing means; and assigning a channel to a modem processing means still having a maximum level of load margin, respectively wherein channel assignment to a plurality of the modern processing means is in a band-over processing executed by a RF mobile station moving from a first sector controlled by the RF base station to a second sector so that a second channel for demodulating a second signal received by a second antennae of the RF base station and a first channel for demodulating a first signal received by a first antenna are assigned a same modem processing means, the first signal being transmitted from the RF mobile station and forming a first sector, the second signal being transmitted from the RF mobile station and forming a first sector, the second signal being transmitted from the RF mobile station and forming a second sector, and wherein the same modem processing means of the RF base station combines the first signal received by the first antenna and the second signal received by the second antenna to output a combined signal, as recited in independent claims 7, 11 and 13 Any comments considered necessary by applicant must be submitted no later than the 6.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Stevens whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Stevens Examiner Art Unit 2665

STEVEN NGUYEN
PRIMARY EXAMINER